	Application No.	Applicant(s)	
	10/666,798	BOSSEN, FRANK JAN	
Notice of Allowability	Examiner	Art Unit	
<u>.                                    </u>	Brian Young	2819	
The MAILING DATE of this communication apperation apperation allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. <b>THIS</b>
1. This communication is responsive to the application filed 9.	<u>/18/03</u> .		
2. The allowed claim(s) is/are <u>1-25</u> .			
3. $\boxtimes$ The drawings filed on <u>18 September 2003</u> are accepted by	the Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority unestable as a claim for foreign priority unestable as a claim for foreign priority unestable as a claim for foreign priority unestable under the certified copies of the priority documents have a complex of the priority documents have a claim for foreign growth and complex of the priority documents have a claim for foreign growth and complex of the priority documents have a claim for foreign growth and complex of the priority documents have a claim for foreign growth and complex of the priority documents have a claim for foreign priority under the claim for foreign priority documents have a claim for fo	been received.  been received in Application No cuments have been received in this in of this communication to file a reply ENT of this application.  itted. Note the attached EXAMINER' es reason(s) why the oath or declarate t be submitted. on's Patent Drawing Review ( PTO- s Amendment / Comment or in the Comment	national stage applical complying with the recomplying application of the recomplying application and the recomplying application applica	quirements
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIAL n	, nust be submitted. I	Note the
<ul> <li>Attachment(s)</li> <li>1.  Notice of References Cited (PTO-892)</li> <li>2.  Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3.  Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date</li></ul>	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 8), 7. Examiner's Amendn 8. Examiner's Stateme 9. Other	(PTO-413), e nent/Comment	·

Application/Control Number: 10/666,798

Art Unit: 2819

- 1. Claims 1-25 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: the method for creating a state machine for probability estimation comprises assigning probabilities to states of a look up table (LUT), including setting a probability for each state i of the states equal to the highest probability of the LPS multiplied by the adaptation rate to the power i, where i is a number for a given state and the adaptation rate is smaller than 1 and generating state transitions for states in the LUT to be transitioned to upon observing an MPS and an LPS, wherein the next state to which the state machine transitions from a current state when an MPS is observed is a next state higher than the current state if the current state is not the highest state and is the current state if the current state is the highest state and the next state to which the state machine transitions from a current state when an LPS is observed for a plurality of states is a rounded version of a result of the claimed calculation, has not been shown in the prior art.
- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Pennebaker et al disclose a computer apparatus and methodology for adapting the value of a probability of the occurrence of a first of two binary symbols which includes (a) maintaining a count of the number k of occurrences of the first symbol; (b) maintaining a total count of the number n of occurrences of all symbols; (c) selecting confidence limits for the probability; and (d) when the probability is outside the confidence limits, effectuating a revision in the value of the probability directed toward restoring confidence in the probability value. The number of allowed

probabilities is, optionally, less than the total number of possible probabilities given the probability precision. Moreover, an approximation is employed which limits the number of probabilities to which a current probability can be changed, thereby enabling the probability adaptation to be implemented as a deterministic finite state machine.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Young whose telephone number is 571-272-1816. The examiner can normally be reached on Mon-Fri 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Tokar can be reached on 571-272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Brian Young

Primary Examiner

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